

Title (en)

Apparatus and method of determining rotor position in a salient-type motor

Title (de)

Vorrichtung und Verfahren zum Bestimmen der Rotorposition in einem schenkelartigen Motor

Title (fr)

Appareil et procédé de détermination de position de rotor dans un moteur à pôles saillants

Publication

EP 2590316 A2 20130508 (EN)

Application

EP 12190825 A 20121031

Priority

US 201113286591 A 20111101

Abstract (en)

An example apparatus includes a controller configured to control operation of a salient-type, multiphase motor in accordance with a technique including periodic on and off-times, the motor including a stator and a rotor. The controller is configured to calculate or receive values representing changes in current to the motor during the respective on and off-times or measurements proportional thereto, and calculate an inductance of the motor as a function of the values and a supply voltage to the motor. And the controller is configured to determine a position of the rotor based on the inductance of the motor, and control operation of the motor based on the position of the rotor.

IPC 8 full level

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CPC (source: EP US)

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Citation (applicant)

US 7963442 B2 20110621 - JENKINS DENNIS HYATT [US], et al

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